

isc N-Channel MOSFET Transistor

IPP60R074C6

• FEATURES

- · With low gate drive requirements
- · Very high commutation ruggedness
- · Extremely high frequency operation
- 100% avalanche tested
- Minimum Lot-to-Lot variations for robust device performance and reliable operation

APPLICATIONS

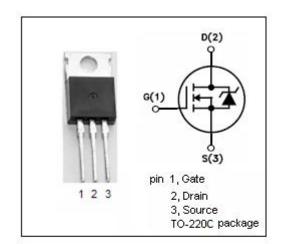
- · Switching applications
- LCD&PDP TV
- PC silverbox
- UPS and solar

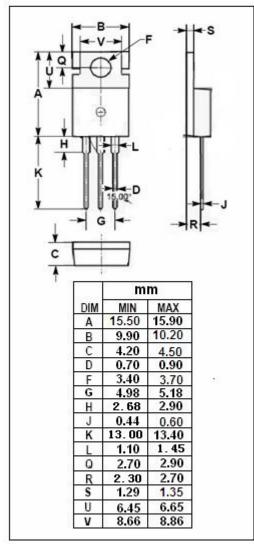
• ABSOLUTE MAXIMUM RATINGS(T_a=25°C)

SYMBOL	PARAMETER	VALUE	UNIT
V _{DSS}	Drain-Source Voltage	600	V
V _{GSS}	Gate-Source Voltage	±20	V
I _D	Drain Current-Continuous@Tc=25°C Tc=100°C	57.7 31.6	А
I _{DM}	Drain Current-Single Pulsed	151	А
P_D	Total Dissipation	480.8	W
Tj	Operating Junction Temperature -55~150		°C
T _{stg}	Storage Temperature	-55~150	°C

• THERMAL CHARACTERISTICS

SYMBOL	PARAMETER		UNIT	
Rth(ch-c)	Channel-to-case thermal resistance	0.26	°C/W	
Rth(ch-a)	Channel-to-ambient thermal resistance	62	°C/W	







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ELECTRICAL CHARACTERISTICS

T_C=25°C unless otherwise specified

SYMBOL	PARAMETER	CONDITIONS	MIN	TYP	MAX	UNIT
BV _{DSS}	Drain-Source Breakdown Voltage	V _{GS} =0V; I _D = 0.25mA	600			V
V _{GS(th)}	Gate Threshold Voltage	V _{DS} =±20V; I _D =1.4mA	2.5		3.5	V
R _{DS(on)}	Drain-Source On-Resistance	V _{GS} = 10V; I _D =21A		67	74	mΩ
I _{GSS}	Gate-Source Leakage Current	V _{GS} = ±20V;V _{DS} = 0V			±0.1	μА
I _{DSS}	Drain-Source Leakage Current	V _{DS} = 600V; V _{GS} = 0V@Tj=25°C Tj=150°C			5 50	μ A
V _{SDF}	Diode forward voltage	I _{SD} =21A, V _{GS} = 0 V			0.9	V

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